MEASURING AND DRAWING

CONTENT DOMAIN REFERENCES: G3, G4, M7

KS2 SATS

PRACTICE QUESTIONS BY TOPIC

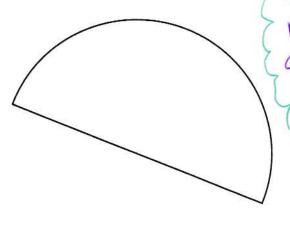


Here is a semi-circle.

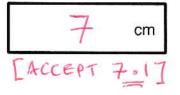
[2012]

Measure accurately the length of the straight edge.

Give your answer in centimetres.



NOTE: THE SOLUTIONS FOR MEASURING LENGTHS [THROUGH: OUT THIS BOOKLET] ASSUME FULL-SIZE (44) PRINTOUTS



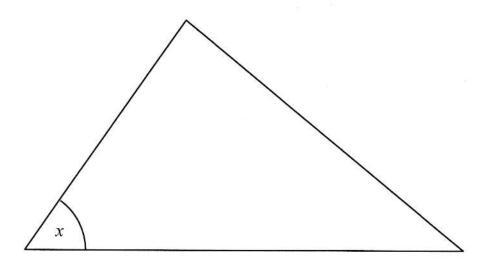
[1 mark]

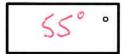
2

Measure angle x accurately.

[2004]

Use a protractor (angle measurer).





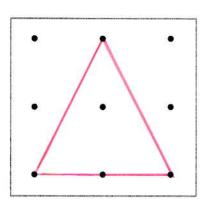


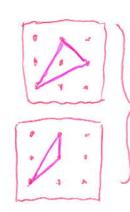
[2002]

On the grid join dots to make a triangle which does not have a right angle.

Use a ruler.





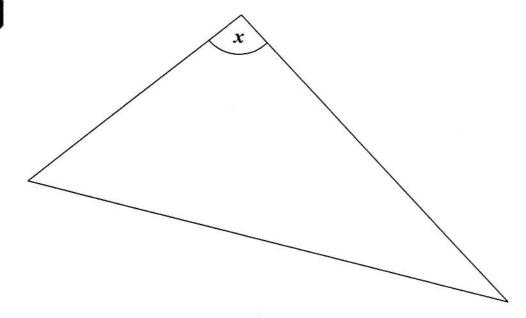


ACCEPT ANY
ROTATIONS,
TRANSCATIONS
ON REFLECTIONS

[1 mark]

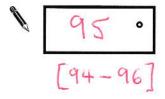
4

[2004]

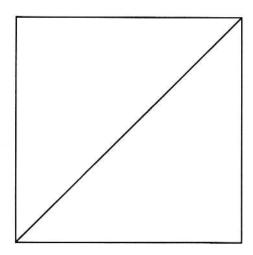


Measure angle x accurately.

Use a protractor (angle measurer).

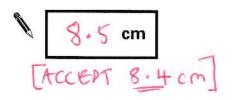


[2004]



Measure accurately the length of the diagonal of this square.

Give your answer in centimetres.

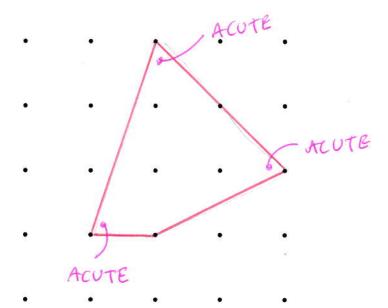


[1 mark]

6

Join dots on the grid to make a quadrilateral that has 3 acute angles.

[2016S]



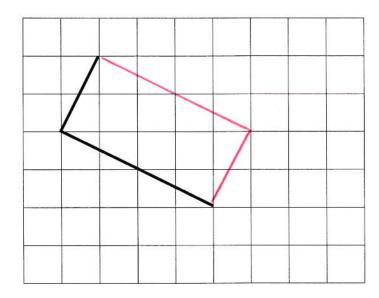
[THERE ARE OTHER POSSIBILITIES] [1 mark]

Draw two more straight lines to make a rectangle.

[2001]

Use a ruler.



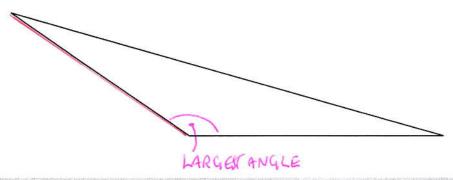


[1 mark]

8

Here is a triangle.

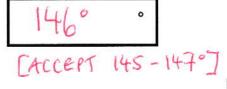
[2016S]



Measure the shortest side accurately, in centimetres.



Measure the largest angle.

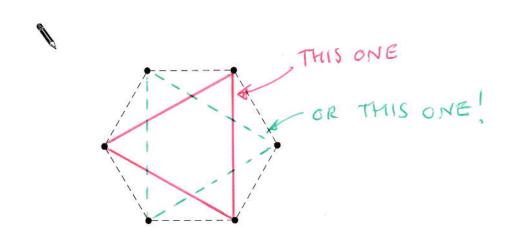


Here is a regular hexagon.

[2004]

Join three of the dots to make an equilateral triangle.

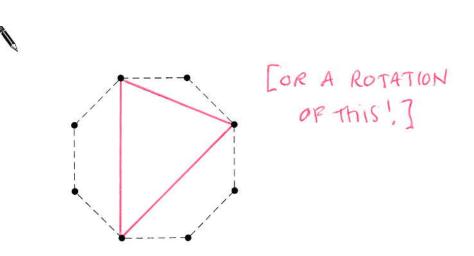
Use a ruler.



Here is a regular octagon.

Join three of the dots to make an isosceles triangle.

Use a ruler.



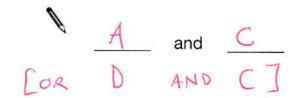
w

Here are four lines: A, B, C and D.

[2013]

Α	8.5	
В	7.5	
С	·	9.5
D	9.5	

Which two lines have a total length of 18cm?

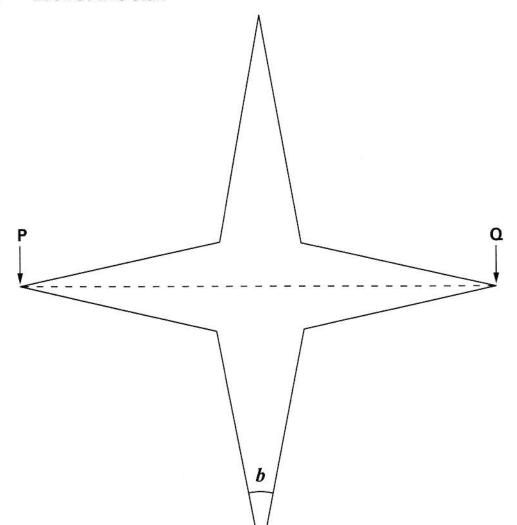


Draw a straight line that is 3 centimetres longer than line B.

Use a ruler.

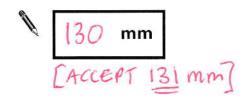
10.5 cm!

Look at this star.

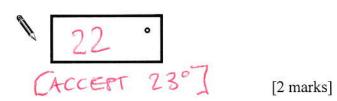


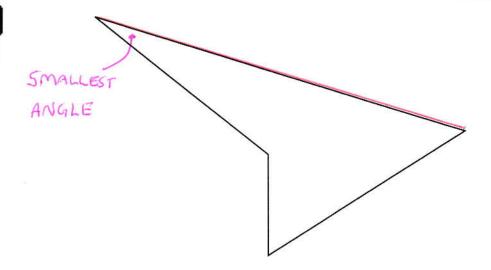
Use a ruler to measure accurately the width of the star, from P to Q.

Give your answer in millimetres.



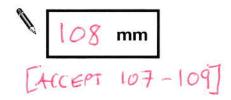
Use a protractor (angle measurer) to measure angle b.





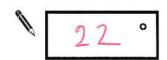
Measure accurately the longest side of this shape.

Give your answer in millimetres.



Measure accurately the smallest angle in the shape.

Use a protractor (angle measurer).



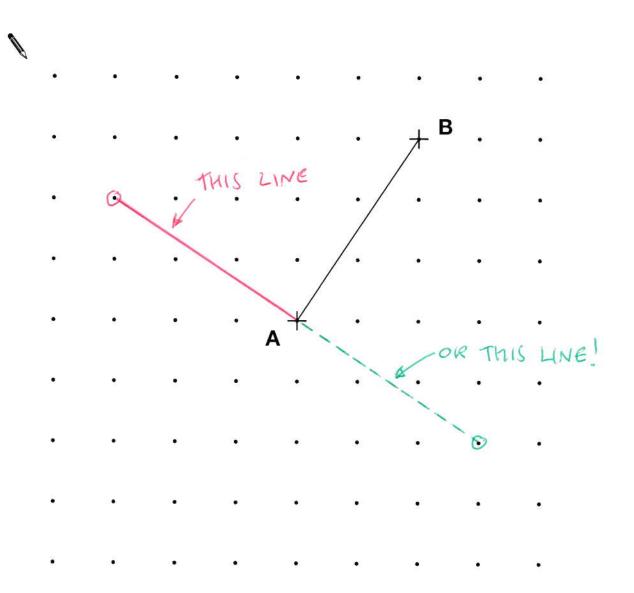
Here is a grid of dots.

[2010]

Point A and point B are joined by a straight line.

Draw a line to join point **A** to another dot on the grid so that the two lines make a right angle.

Use a ruler.

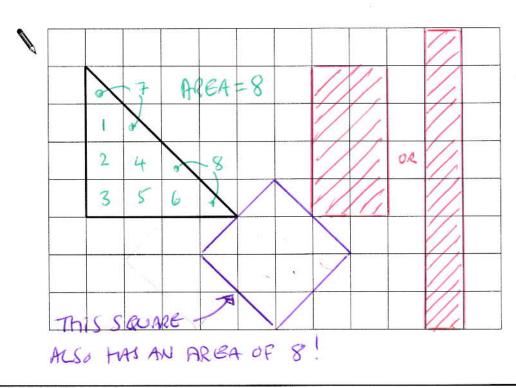


Here is a triangle drawn on a square grid.

[2006]

Draw a rectangle on the grid with the same area as the triangle.

Use a ruler.

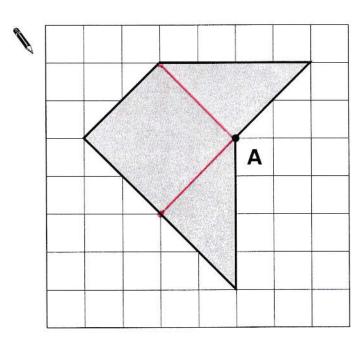


[OR 90°
ROTATIONS
OF THESE]

[1 mark]

15 [2003]

Draw **two straight lines** from point **A** to divide the shaded shape into a square and two triangles.



[2000]

On the grid, draw a **rectangle** which has the **same area** as this shaded pentagon.

Use a ruler.



(2	(1	2	3	4		11			
		13	9	6	8	A	RBA	= 1	4)
	Co	e f	9	/	Ro	/// TAT	101	J		

[1 mark]

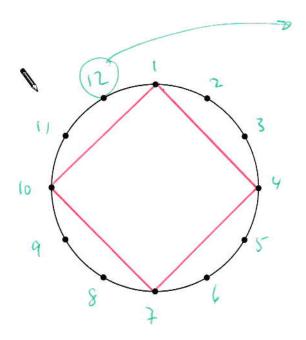
17

The twelve points on this circle are equally spaced.

[2009]

Join four points to make a square.

Use a ruler.



12 [DOTS] 4 [SIDES IN A SQUARE]

23 DOTS FOR EACH SIDE!

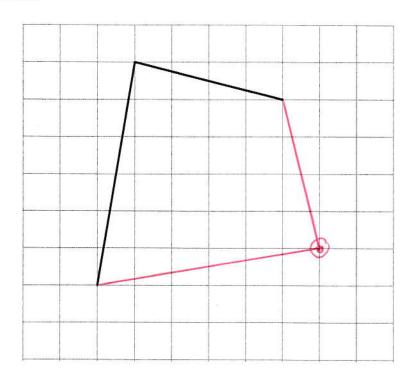
Here is a square grid.

[2011]

Two sides of a kite are drawn on the grid.

Complete the kite by drawing the two missing sides.

Use a ruler.



[1 mark]

19

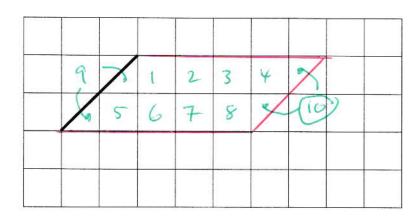
This is a centimetre grid.

[2001]

Draw 3 more lines to make a parallelogram with an area of 10cm²

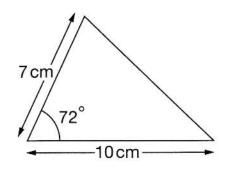
Use a ruler.





Here is a sketch of a triangle.

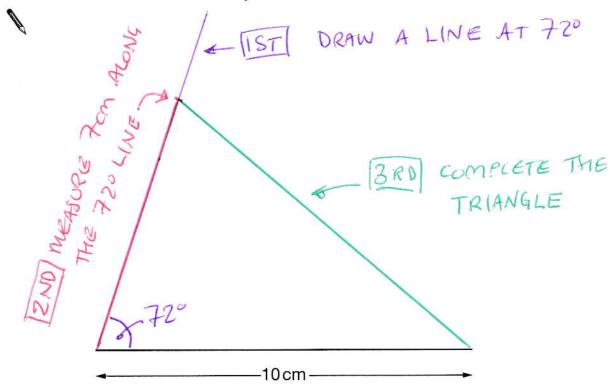
It is not drawn to scale.



Draw the full-size triangle accurately below.

Use a protractor (angle measurer) and a ruler.

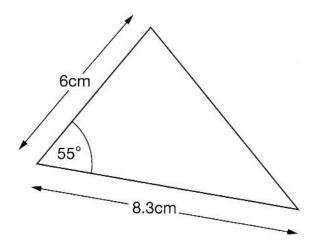
One line has been drawn for you.



Here is a sketch of a triangle.

[2014]

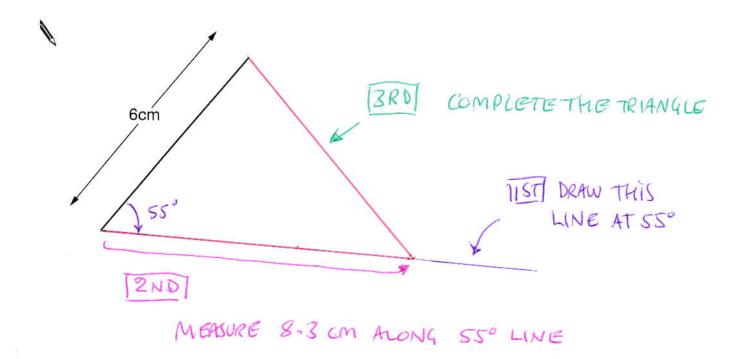
It is not drawn to scale.



Draw the full-size triangle accurately below.

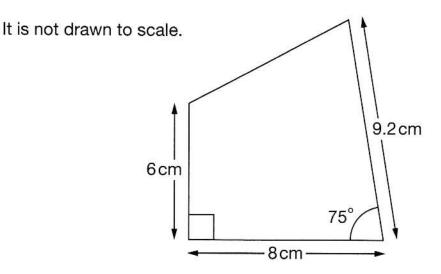
Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.



Here is a sketch of a quadrilateral.

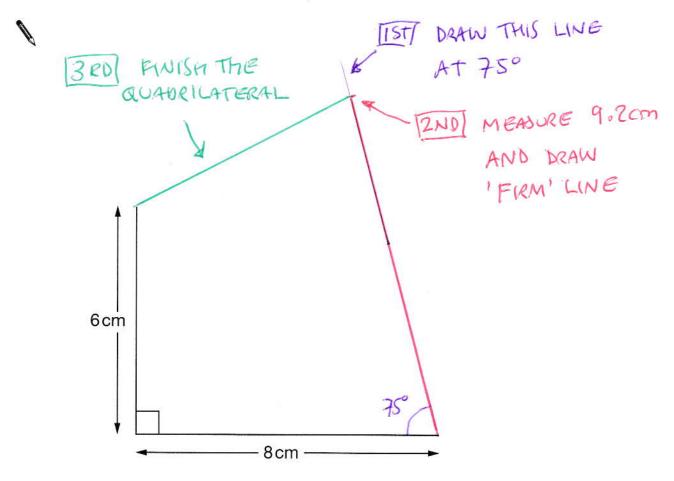
[2011]



Draw the full-size quadrilateral accurately below.

Use a protractor (angle measurer) and a ruler.

Two of the lines have been drawn for you.

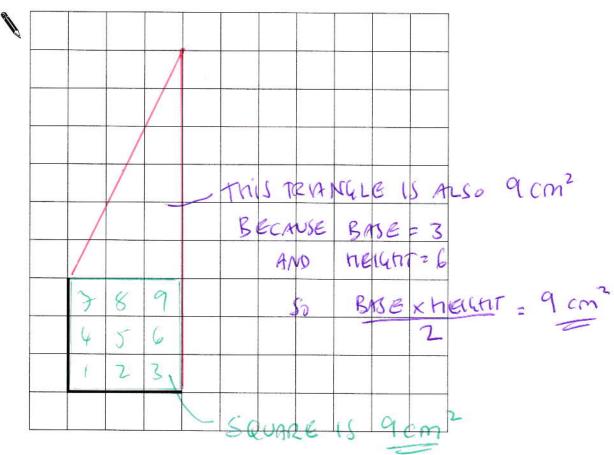


Here is a centimetre grid.

[2002]

Draw two more lines to make a quadrilateral with an area of 18cm²

Use a ruler.



[1 mark]

[THERE ARE OTHER POSSIBILITIES TOO!]